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Office of the Director

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Via Electronic Mail and Hand Delivery

January 6, 2010

James Marshall
Central Valley Regional Water Quality Control Board
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SUBJECT: **TENTATIVE WASTE DISCHARGE REQUIREMENTS FOR THE CITY OF SACRAMENTO COMBINED WASTEWATER COLLECTION AND TREATMENT SYSTEM**

Dear Mr. Marshall:

On behalf of the City of Sacramento, thank you for the opportunity to submit comments regarding the tentative waste discharge requirements (Tentative Order) for the City's Combined Wastewater Collection and Treatment System (CSS). Overall, we believe the Tentative Order represents a sound approach to regulation of the CSS consistent with the federal Clean Water Act and U.S. EPA's CSO Policy.

To facilitate review of our comments, we have provided an attached list of revisions to the Tentative Order that we request be made prior to adoption of the final order. This letter provides further explanation and rationale for the key proposed revisions.

The Tentative Order Should Make Clear the CSS is not a Publicly Owned Treatment Works:

We understand that the State and Regional Water Boards use a permit template for NPDES permits. The template includes numerous findings and provisions applicable only to certain types of discharger such as publicly owned treatment works (POTWs). The Combined Sewer Overflow Control Policy, codified at 33 U.S.C. 1342(g), defines a CSS and specifies that combined sewer overflows (CSOs) are not subject to secondary treatment requirements applicable to POTWs. In order to provide the City and other interested stakeholders with clear notice of what is required, we believe it is important that the CSS permit specify that the permit components applicable to POTWs are not applicable to the CSS and are not part of the order.

We have offered two approaches to this issue in the attached list of revisions. The first is to modify the sentences at the end of Finding C, Legal Authorities (page 5), as follows:

> CSOs are defined as the discharge from the combined sewer system at a point prior to the publicly owned treatment works (POTW) treatment plant (see Federal Register, Vol. 59 No. 75, Tuesday, 19 April 1994, Section I.A.). The CSS is not a publicly owned treatment works and is not subject to requirements that apply only to POTWs. This Order implements the USEPA CSO Control Policy.

The second approach is to note alongside each heading that a particular POTW related provision is not applicable to the CSS. We request that one or both of these approaches be implemented in the final order.

The Provision Requiring Prior Executive Officer Approval for Operational Changes is Unnecessarily Limiting:

Special Provision 4.a of the Tentative Order requires development of a Combined Wastewater Control System Plan of Operations, which "shall specify the procedures to be used by the Discharger to manage the CSS." By its nature, this is a comprehensive plan that will address operations, maintenance, inspection and other procedures within the CSS. To ensure that the City can respond to issues and challenges promptly and effectively, the City must retain flexibility to adjust its operational practices. However, the Tentative Order would require prior *approval* by the Executive Officer before any modifications to the plan can be implemented, and there is no timeframe specified for Regional Water Board staff review. This would unnecessarily limit the City's responsiveness and flexibility in addressing operational issues as they arise.

In the alternative, we recommend that the provision require submittal of plan changes to the Executive Officer and the opportunity for the Executive Officer to object to proposed changes. The second paragraph of Provision 4.a. (Page 21) should therefore be revised as follows:

> "The Discharger shall operate the combined wastewater collection and treatment system in conformance with the Combined Wastewater Control System Plan of Operations and shall report any variation from the Plan in the next monthly monitoring report as required in Attachment E (Section X.B). ~~Any~~ Substantive modifications to the Combined Wastewater Control System Plan of Operations must be submitted for review ~~and approval~~ by the Executive Officer. The Discharger shall revise the Plan within 30 days of receiving notice from the Executive Officer that revisions are required. ~~before they may become effective.~~

The Outflow Reporting Requirements (Attachment G) Are Not Consistent With the Design of the CSS Collection System:

The City does not object to reporting of dry weather CSS outflows using the online reporting database in CIWQS. However, we are concerned that the proposed reporting scheme set forth in Attachment G does not accurately reflect the nature of the CSS and the real world potential threat to public health and the environment. Unlike the more typical scenario in which storm drains and sanitary sewer collection

systems are separated and storm drains flow directly to receiving waters, the CSS is designed to capture both storm flows and wastewater in a single conveyance and route these flows to pump stations. In this manner outflows within the CSS are captured and contained and cannot reach surface waters. Thus, the City should not be required to report outflows to the storm drain system unless those outflows are to a *separate* storm system. For these reasons, Attachment G should be revised as proposed.

Thank you for your consideration of our comments. Please do not hesitate to contact Sherill Huun at (916) 808-1455 if you would like to discuss our comments further.

Sincerely,

Marty Hanneman, Director
City of Sacramento
Department of Utilities

Enclosures: Attachment

Copy: Dave Brent, Engineering Services Division Manager
Mike Yee, Plant Services Division Manager
Dave Phillips, Water and Sewer Superintendent
Rick Batha, Supervising Engineer
Sherill Huun, Supervising Engineer
Delia McGrath, Senior Engineer
File

ATTACHMENT

January 6, 2010

City of Sacramento Comments for the
Tentative Waste Discharge Requirements for the
Combined Wastewater Collection and Treatment System

Comment 1: Facility description, Pages 4 through 5:

Finding B should be revised as follows:

> The Pioneer Reservoir provides primary treatment and disinfection for ~~to~~ up to 250 mgd. After the wastewater is dechlorinated~~ion~~, it is discharged to the Sacramento River at Discharge Point No. 006. ~~and/or~~ Flows can also be sent via the CWTP Force Main to the CWTP, where an additional 130 mgd of combined wastewater receives primary treatment and disinfection prior to discharge to the Sacramento River at Discharge Point Nos. 002 or 003. Both the Pioneer Reservoir and the ~~The~~ CWTP basins can ~~are~~ also be used for storage of up to 27 and 9.2 million gallons (including the CWTP Interceptor) of combined sewage respectively ~~flow~~ and then routing ~~diversion of flows back~~ to the SRWTP for secondary treatment.
>
> ~~During major storms,~~ Sumps 1/1A can also pump~~s~~ up to 200 mgd to Pioneer Reservoir. As flows to Sumps 1/1A and Sumps 2/2A increase, and once treatment capacity limits for Pioneer Reservoir and CWTP are reached, flows above 250 mgd are routed through Pioneer Reservoir for at least partial primary treatment and then discharged to the river. During extreme high flow conditions, discharges of untreated combined wastewater may occur at Sumps 2/2A through Discharge Point Nos. 004 and 005 and at the Sump A bypass at Discharge Point No. 007. Each of the six permitted combined sewer overflow (CSO) Discharge Points (Nos. 002 through 007) discharge directly to the Sacramento River, a water of the United States, within the Sacramento-San Joaquin River Basins Watershed. Attachment B provides a location map of the six CSO discharge locations. Attachment C provides a flow schematic of the Facility.

Comment 2: Finding C, Legal Authorities, Page 5:

The Combined Sewer Overflow Control Policy, codified at 33 U.S.C. 1342(g), defines a CSS and specifies that combined sewer overflows (CSOs) are not subject to secondary treatment requirements applicable to POTWs. In order to provide the City and other interested stakeholders with clear notice of what is required, we believe it is important that the CSS permit specify that the permit components applicable to POTWs are not applicable to the CSS and are not part of the order. We recommend that the following sentence be inserted prior to the final sentence of the second full paragraph:

The CSS is not a publicly owned treatment works and is not subject to requirements that apply only to POTWs. This Order implements the USEPA CSO Control Policy.

Comment 3: Section III. B. Discharge Prohibitions, Bypass, Page 11:

To accurately reflect the characteristics of the CSS, this prohibition should be reworded as follows:

> The by-pass of untreated or partially treated wastewater to surface waters is prohibited, except during wet weather and as allowed by federal Standard Provisions I.G. and I.H. (Attachment D). ~~The exception to t~~ This Discharge Prohibition ~~is~~ does not apply to discharges from Discharge Point Nos. 002, 003, 004, 005, 006, and 007 in accordance with Discharge Prohibitions III.D and III.E below.

Comment 4: Section V. Receiving Water Limitations for Pesticides, Page 14:

The City proposes to delete Receiving Water Limitations numbered 9.d and 9.e in the Tentative Order because they are so vague as to be unenforceable. These two provisions appear to have been simply cut and pasted from the Basin Plan. It is not possible for the City to know what concentrations of pesticides are allowed by federal and state anti-degradation policies, nor what level of pesticides is the lowest "technically and economically achievable." Permit requirements must be sufficiently clear and unambiguous that a permittee can conform its conduct to the law.

> ~~d. Pesticide concentrations to exceed those allowable by applicable antidegradation policies (see State Water Board Resolution No. 68-16 and 40 CFR 131.12.);~~
>
> ~~e. Pesticide concentrations to exceed the lowest levels technically and economically achievable;~~

Comment 5: Standard Provisions, Pages 15 through 17:

Revise the Standard provisions as follows:

> A.1 The Discharger shall comply with all applicable Standard Provisions (federal NPDES standard conditions from 40 CFR Part 122) included in Attachment D of this Order.

Delete Standard Provisions 2.a, 2.j and 2.m and replace with the heading: "POTWs Only—Not Applicable":

Revise the final sentence of Standard Provision 2.b as follows:

> The Regional Water Board may review and revise this Order in accordance with 40 CFR 124.5 at any time upon application of any affected person or the Regional Water Board's own motion.

Comment 6: Reopener Provisions, Page 20:

Revise Reopener C.1.d as follows:

> **d. Compliance with State-Wide Sanitary Sewer System General Order.** The CSS is not currently subject to Order No. 2006-0003-DWQ, a Statewide General WDR for Sanitary Sewer Systems. If the State Water Board revises or reissues Order No. 2006-0003-DWQ~~, a Statewide General WDR for Sanitary Sewer Systems,~~ during the term of this order to extend coverage to CSS, this Order shall be reopened and revised to ensure consistency with and eliminate duplication of any applicable provisions and/or requirements.

Comment 7: Special Studies, Technical Reports and Additional Monitoring Requirements, Page 20:

The City proposes the deadline for the water quality assessment plan be revised to allow sufficient time for the contracting process to select a consultant to perform the work. The City also proposes a specific deadline be identified for the completion of the assessment and that the deadline coincide with the annual report submittal. The proposed date is at the start of the 3rd year of the permit term.

> **a. CSS Water Quality Assessment.** The Discharger shall complete a water quality assessment to demonstrate compliance with applicable water quality based objectives for CSO discharges from the CSS, including protection of designated uses. The intent of the assessment is for the Discharger to determine if their Long-Term Control Plan (which is based on the USEPA CSO Control Policy's Presumption Approach) continues to achieve compliance with all applicable State water quality objectives and protects designated uses of the Sacramento River for remaining CSOs.
>
> ~~Within **90 days from the effective date** of this Order~~ By September 1, 2010, the Discharger shall provide to the Regional Water Board for review and approval, a plan for conducting the water quality assessment, including proposed data, data sources, and methodology(ies) to be used for evaluating compliance. The water quality assessment plan shall describe the monitoring that will be conducted to

collect data for use in the assessment, including 1) recommended pollutant parameters (including individual pollutants of concern, indicator pollutants, and other indicator tests such as whole effluent toxicity); 2) sampling locations; 3) sampling frequencies; and 4) analytical methods. Monitoring shall, at a minimum, include two full wet weather seasons. In developing the plan, the Discharger may propose coordinating data collection with the monitoring program required as part of the Discharger's municipal separate storm sewer system (MS4) program (as required in Order No. R5-2008-0142/NPDES Permit No. CAS082597).

The Discharger shall complete the water quality assessment and provide a report to the Regional Water Board by **no later than ~~the end of the 3rd year~~ January 30, 2013** of the permit term.

Comment 8: Combined Wastewater Control System Plan of Operations, Page 21:

By its nature, this is a comprehensive plan that will address operations, maintenance, inspection and other procedures within the CSS. To ensure that the City can respond to issues and challenges promptly and effectively, the City must retain flexibility to adjust its operational practices. However, the Tentative Order would require prior *approval* by the Executive Officer before any modifications to the plan can be implemented, and there is no timeframe specified for Regional Water Board staff review. This would unnecessarily limit the City's responsiveness and flexibility in addressing operational issues as they arise. To address this, the City recommends the following revision:

The Discharger shall operate the combined wastewater collection and treatment system in conformance with the Combined Wastewater Control System Plan of Operations and shall report any variation from the Plan in the next monthly monitoring report as required in Attachment E (Section X.B). ~~Any~~ Substantive modifications to the Combined Wastewater Control System Plan of Operations must be submitted for review ~~and approval~~ by the Executive Officer. The Discharger shall revise the Plan within 30 days of receiving notice from the Executive Officer that revisions are required ~~before they may become effective~~.

Comment 9: Review and Modify Pretreatment Program, Page 24:

The City is proposing this section of the permit be revised to identify a specific due date that coincides with the annual report submittal deadlines.

iii. Review and Modify Pretreatment Program. ~~Within 18 months from the effective date of this Order~~ By January 30, 2012, the Discharger shall provide to the Regional Water Board the results of an evaluation of the potential impact from non-domestic users of the CSS during precipitation events, in terms of their contributions of pollutants in CSS outflows and

CSOs. The Discharger shall determine whether additional modifications through the Sacramento Regional County Sanitation District's pretreatment program are necessary or of practical value. At a minimum, this evaluation shall include the feasibility of limiting or prohibiting discharges by non-domestic users during wet weather events and the feasibility of requiring some form of retention to prevent such discharges during wet weather events.

Comment 10: Notify the Public of Overflows, Page 26:

The City is proposing this section of the permit be revised to identify a specific due date that coincides with the annual report submittal deadlines.

viii. Notify the Public of Overflows.

(a) The Discharger shall implement its revised March 2007 "Standard Operating Procedures for Emergency Response."

(b) ~~**Within 6 months from the effective date of this Order**~~ **By January 30th, 2011**, the Discharger shall evaluate and report on the implementation of the public notification provisions of the March 2007 "Standard Operating Procedures for Emergency Response" to ensure that the public is receiving adequate notification of CSS outflows and CSOs in accordance with the USEPA's CSO Control Policy and the CSS outflow reporting requirements contained in Attachment G of this Order. The Discharger shall investigate the feasibility of using additional means for notifying the public when CSOs and CSS outflows occur that may pose a risk to public health and the environment.

Comment 11: Special Provision 5 for Municipal Facilities (POTWs Only), Pages 26 through 27:

This provision, which applies only to POTWs, should be deleted and the heading retained with the note "**Not Applicable**" similar to Special Provisions 6 and 7.

Comment 12: Attachment A – Definitions:

Revise the Definition of Reporting Level (RL) as follows:

RL is the ML (and its associated analytical method) chosen by the Discharger for reporting and compliance determination from the MLs included in this Order. The MLs included in this Order correspond to approved analytical methods for reporting a sample result that are selected by the Regional Water Board either

from Appendix 4 of the SIP in accordance with section 2.4.2 of the SIP or established in accordance with section 2.4.3 of the SIP. While this discharge is not subject to the regulatory provisions of the SIP, the MLs are used for reporting purposes because they represent the levels reliably detected and quantified using approved analytical methods. The ML is based on the proper application of method-based analytical procedures for sample preparation and the absence of any matrix interferences. Other factors may be applied to the ML depending on the specific sample preparation steps employed. For example, the treatment typically applied in cases where there are matrix-effects is to dilute the sample or sample aliquot by a factor of ten. In such cases, this additional factor must be applied to the ML in the computation of the RL.

Comment 13: Attachment D, Standard Provisions, Page D-9:

Provision VII.A, Notification levels, does not apply to the CSS and the heading for this section should state "**Not Applicable**."

Comment 14: Attachment E, Monitoring and Reporting Program, Page E-2 through E-7:

The City proposes the following clarifications to the language in this section of the Permit. In particular, the City requests the constituents listed in Table E-3 be revised as noted. Sampling of mercury, diazinon and chlorpyrifos should not be required as part of this Permit and should only be required as directed by the TMDLs for these constituents. The footnote to the table also inappropriately references the SIP. The SIP does not apply and the MLs for this work would be determined by the TMDL group. Sampling of these constituents would also be more effectively implemented as recommended by the water quality assessment plan.

GENERAL MONITORING PROVISIONS

A. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring locations specified below and, unless otherwise specified, before the monitored flow joins or is diluted by any other waste stream, body of water, or substance. Monitoring locations shall not be changed without notification to and the approval of this Regional Water Board.

B. Effluent samples shall be taken downstream of the last addition of wastes to the treatment or discharge works where a representative sample may be obtained prior to mixing with the receiving waters. Samples shall be collected at such a point and in such a manner to ensure a representative sample of

the discharge. Fecal coliform samples may be collected directly downstream of disinfection facilities, assuming the location is representative of all discharged volumes.

Chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the Department of Public Health (DPH; formerly the Department of Health Services), in accordance with the provision of CWC section 13176, and must include quality assurance/quality control data with their reports. In the event a certified laboratory is not available to the Discharger, analyses performed by a noncertified laboratory will be accepted provided a Quality Assurance-Quality Control Program is instituted by the laboratory. A manual containing the steps followed in this program must be kept in the laboratory and shall be available for inspection by Regional Water Board staff. The Quality Assurance-Quality Control Program must conform to USEPA guidelines or to procedures approved by the Regional Water Board.

C. ~~All analyses shall be performed in a laboratory certified to perform such analyses by DPH.~~ Laboratories that perform sample analyses must be identified in all monitoring reports submitted to the Regional Water Board.

D. Analysis such as dissolved oxygen, pH, temperature and chlorine residual may be measured in the field immediately following collection according to Standard Method procedures. Because of holding time issues, a DPH certified laboratory does not have to perform these analyses.

E. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. All monitoring instruments and devices used by the Discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary, at least yearly, to ensure their continued accuracy. All flow measurement devices shall be calibrated at least once per year to ensure continued accuracy of the devices.

F. Monitoring results, including noncompliance, shall be reported at intervals and in a manner specified in this Monitoring and Reporting Program.

~~**G.** Laboratories analyzing monitoring samples shall be certified by DPH, in accordance with the provision of CWC section 13176, and must include quality assurance/quality control data with their reports.~~

H. The Discharger shall conduct analysis on any sample provided by USEPA as part of the Discharge Monitoring Quality Assurance (DMQA) program. The results of any such analysis shall be submitted to USEPA's DMQA manager.

I. The Discharger shall file with the Regional Water Board technical reports on self-monitoring performed according to the detailed specifications contained in this Monitoring and Reporting Program.

J. The results of all monitoring required by this Order shall be reported to the Regional Water Board, and shall be submitted in such a format as to allow direct comparison with the limitations and requirements of this Order. Unless otherwise specified, discharge flows shall be reported in terms of the monthly average and the daily maximum discharge flows.

I. MONITORING LOCATIONS

The Discharger shall establish the following monitoring locations to demonstrate compliance with the effluent limitations, discharge specifications, and other requirements in this Order:

Table E-1. Monitoring Station Locations

Discharge Point Name	Monitoring Location Name	Monitoring Location Description (include Latitude and Longitude when available)
--	INF-001	At a location that is representative of influent to the Pioneer Reservoir and CWTP
002	EFF-002	CWTP effluent downstream from last connection through which wastes can be admitted into the outfall
003	EFF-003	CWTP (Storm Sump 104) effluent downstream from last connection through which wastes can be admitted into the outfall
004	EFF-004	Sump 2/2A Gate #4
005	EFF-005	Sump 2/2A Gate #5
006	EFF-006	Pioneer Reservoir effluent downstream from last connection through which wastes can be admitted into outfall
007	EFF-007	Pioneer Reservoir Combined Sump 1A Bypass
--	RSW-001	Upstream of CSO Discharge Point Nos. 006 and 007, at the Delta King
--	RSW-002	Downstream of Discharge Point Nos. 006 and 007, at Miller Park
--	RSW-003	Downstream of Discharge Point Nos. 004 and 005, at La Rivage
--	RSW-004	Downstream of Discharge Point Nos. 002 and 003, at Wooden Stairs

II. INFLUENT MONITORING REQUIREMENTS

A. Monitoring Location INF-001

1. The Discharger shall monitor influent to the Facility at INF-001 as described in the following table. Samples shall be collected at approximately the same time as effluent samples (i.e., the same storm event or river discharge event) and should be representative of the influent for the period sampled. If no discharge from the CWTP (Discharge Point Nos. 002 or 003) and/or Pioneer Reservoir (Discharge Point No. 006) is occurring, no influent monitoring is required (and the Discharger shall indicate that no monitoring was required in the monthly self-monitoring reports required in Section X.B. of this Monitoring and Reporting Program).

Table E-2. Influent Monitoring

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
Flow	mgd	Meter	Continuous[1]	[3]
Total Suspended Solids	mg/L	Flow-weighted Composite	1/Discharge Event[2]	[3]
Settleable Solids	ml/L	Grab	1/Discharge Event[2]	[3]

[1] Flow monitoring is required continuously during the storm event that resulted in a discharge from Discharge Point Nos. 002, 003 and/or 006.
[2] At least one grab sample is required during the first 4 hours of a discharge from Discharge Point Nos. 002, 003 and/or 006. If the duration of the discharge event is greater than 24 hours, daily samples shall be collected.
[3] Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136.

III. EFFLUENT MONITORING REQUIREMENTS

A. Monitoring Locations EFF-002, EFF-003, and EFF-006

1. The Discharger shall monitor CWTP effluent at Monitoring Locations EFF-002 or EFF-003, and Pioneer Reservoir effluent at Monitoring Location EFF-006, as follows. If no discharge from the CWTP (Discharge Point Nos. 002 or 003) and/or Pioneer Reservoir (Discharge Point No. 006) is occurring, no effluent monitoring is required (and the Discharger shall indicate that no monitoring was required in the monthly self-monitoring reports required in Section X.B. of this Monitoring and Reporting Program).

Table E-3. Effluent Monitoring (Monitoring Locations EFF-002, EFF-003, and EFF-006)

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and (Minimum Level, units), respectively
Flow	mgd	Meter	Continuous[1]	[4]
Total Flow	Million gallons	Meter	Continuous[1]	[4]

Flow Duration	Hours	Calculate	Continuous[1]	[4]
Total Suspended Solids	mg/L	Grab	1/Discharge Event[3]	[4]
Total Suspended Solids	% Removal[2]	Calculate	1/Discharge Event[3]	[4]
Settleable Solids	mL/L	Grab	1/Discharge Event[3]	[4]
pH	Standard Units	Grab	1/Discharge Event[3]	[4]
Dissolved Oxygen	mg/L	Grab	1/Discharge Event[3]	[4]
Fecal Coliform	MPN/100 mL	Grab	1/Discharge Event[3]	[4]
Chlorine, Total Residual	mg/L	Grab	1/Discharge Event[3]	[4]
~~Mercury, Total Recoverable~~	~~µg/L~~	~~Grab~~	~~1/Discharge Event[3]~~	~~4,5~~
~~Methylmercury~~	~~µg/L~~	~~Grab~~	~~1/Discharge Event[3]~~	[4]
~~Chlorpyrifos~~	~~µg/L~~	~~Grab~~	~~1/Discharge Event[3]~~	~~4,6~~
~~Diazinon~~	~~µg/L~~	~~Grab~~	~~1/Discharge Event[3]~~	~~4,6~~
Temperature	~~°F~~	~~Grab~~	~~1/Discharge Event[3]~~	[4]

[1] Flow monitoring is required continuously during the storm event that resulted in a discharge from Discharge Point Nos. 002, 003 and/or 006.
[2] Report removal efficiency (%) for each storm event using influent (INF-001) and effluent values for Discharge Point Nos. 002, 003 and 006.
[3] At least one grab sample is required during the first 4 hours of a discharge. If the duration of the discharge event is greater than 24 hours, daily samples shall be collected.
[4] Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136.
[5] ~~The analytical methods must meet the lowest minimum levels (MLs) specified in Attachment 4 of the SIP.~~
[6] Diazinon and chlorpyrifos shall be analyzed using USEPA Method 8141A, USEPA Method 625M or equivalent GC/MS method to reporting limits of 0.020 µg/L and 0.010 µg/L, respectively.

B. Monitoring Locations EFF-004, EFF-005, and EFF-007

1. The Discharger shall monitor Sumps 2/2A effluent at Monitoring Location EFF-004 and EFF-005, and Pioneer Reservoir Combined Sump 1A untreated effluent at Monitoring Location EFF-007, as follows. If no discharge from the Discharge Point Nos. 004, 005 and/or 007 is occurring, no effluent monitoring is required (and the Discharger shall indicate that no monitoring was required in the monthly self-monitoring reports required in Section X.B. of this Monitoring and Reporting Program).

Table E-4. Effluent Monitoring (Monitoring Locations EFF-004, EFF-005, and EFF-007)

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and (Minimum Level, units), respectively
Flow	mgd	Meter	Continuous[1]	[3]
Total Flow	Million gallons	Meter	Continuous[1]	[3]
Flow Duration	Hours	Calculate	Continuous[1]	[3]
pH	Standard Units	Grab	1/Discharge Event[2]	[3]
Dissolved Oxygen	mg/L	Grab	1/Discharge Event[2]	[3]

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method and (Minimum Level, units), respectively
Temperature	°F	Grab	1/Discharge Event[2]	[3]
Total Suspended Solids	mg/L	Grab	1/Discharge Event[2]	[3]
Settleable Solids	mL/L	Grab	1/Discharge Event[2]	[3]
Fecal Coliform Organisms	MPN/100 mL	Grab	1/Discharge Event[2]	[3]

[1] Flow monitoring is required continuously during the storm event that resulted in a discharge from Discharge Point Nos. 004, 005 and/or 007.

[2] At least one grab sample during the first 4 hours of a discharge. If the duration of the discharge event is greater than 24 hours, daily samples shall be collected.

[3] Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136.

IV. WHOLE EFFLUENT TOXICITY TESTING REQUIREMENTS

B. Acute Toxicity Testing. In performing the CSS Water Quality Assessment required in Section VI.C.2.a of this Order, the Discharger shall conduct acute toxicity testing in accordance with the following acute toxicity testing requirements:

1. *Test Species* – Test species shall be fathead minnows (*Pimephales promelas*).

2. *Methods* – The acute toxicity testing samples shall be analyzed using EPA-821-R-02-012, Fifth Edition. Temperature, total residual chlorine, and pH shall be recorded at the time of sample collection. No pH adjustment may be made unless approved by the Executive Officer.

3. *Test Failure* – If an acute toxicity test does not meet all test acceptability criteria, as specified in the test method, the Discharger must ~~re-sample and~~ re-test as soon as possible should there be remaining sample volume, not to exceed 7 days following notification of test failure.

C. WET Testing Reporting Requirements. All toxicity test reports shall include the contracting laboratory's complete report provided to the Discharger and shall be in accordance with the appropriate "Report Preparation and Test Review" sections of the method manuals. At a minimum, whole effluent toxicity monitoring shall be reported as follows:

1. **Acute WET Reporting.** Acute toxicity test results shall be submitted with the monthly discharger self-monitoring reports and reported as percent survival.

V. LAND DISCHARGE MONITORING REQUIREMENTS – NOT APPLICABLE

VI. RECLAMATION MONITORING REQUIREMENTS – NOT APPLICABLE

VII. RECEIVING WATER MONITORING REQUIREMENTS – SURFACE WATER AND GROUNDWATER

A. Monitoring Locations RSW-001, RSW-002, RSW-003, and RSW-004

1. The Discharger shall monitor the Sacramento River at Monitoring Locations RSW-001, RSW-002, RSW-003, and RSW-004 as follows. Samples shall be collected at Monitoring Locations RSW-001 and RSW-002 when discharge is occurring at Discharge Point Nos. 006 and/or 007. Samples shall be collected at Monitoring Locations RSW-002 and RSW-003 when discharge is occurring at Discharge Point Nos. 004 and/or 005. Samples shall be collected at Monitoring Locations RSW-003 and RSW-004 when discharge is occurring at Discharge Point Nos. 002 and/or 003.

Table E-5. Receiving Water Monitoring Requirements

Parameter	Units	Sample Type	Minimum Sampling Frequency	Required Analytical Test Method
pH	Standard Units	Grab	1/Discharge Event[1]	[2]
Temperature	°F (°C)	Grab	1/Discharge Event[1]	[2]
Dissolved Oxygen	mg/L	Grab	1/Discharge Event[1]	[2]
Turbidity	NTUs	Grab	1/Discharge Event[1]	[2]

[1] Within the first 4 hours of beginning of storm <u>should safety conditions be satisfied</u> causing discharge at any of the Discharge Points (Nos. 002, 003, 004, 005, 006, and/or 007), daily if the discharge event is greater than 24 hours. Consideration will be given for events lasting less than 2 hours in duration due to the difficulty involved in collecting receiving water samples during short discharge events. For events that last less than 2 hours the Discharger shall make an effort to collect samples.

[2] Pollutants shall be analyzed using the analytical methods described in 40 CFR Part 136.

Comment 15: Attachment E, Reporting Schedule, Page E-9:

Revise the table to clarify the due dates for the DMR and SMR are the same.

Table E-6. Monitoring Periods and Reporting Schedule

Sampling Frequency	Monitoring Period Begins On...	Monitoring Period	SMR <u>and DMR</u> Due Date
1/Discharge Event	First discharge event after the effective date of this Order	First day of calendar month through last day of calendar month	First day of second calendar month following month of sampling

Comment 16: Attachment E, D. Other Reports, Page E-11 through E-15:

The City is proposing to revise the deadline for the annual reports back to the original January 30th deadline to better coincide with the years of the permit term. Also, there are various references to differing time periods in the Permit that are confusing such as fiscal year, storm year and permit term. The City proposes the following revisions to the Permit language to clarify the time periods referenced in the annual reporting requirements. As an alternative to the proposed revisions to the text, the following statement could be added prior to sections D.2 through D. 4:

> The Discharger will indicate the time periods used for the data reports required in sections D.2 through D.4, unless specifically identified in the Permit as either being based upon a fiscal year or storm year.

2. **Nine Minimum Controls Annual Progress Report**. The Discharger shall submit documentation that demonstrates implementation of each of the nine minimum controls that includes the elements contained in Sections X.D.2.a through X.D.2.i below. The Discharger shall submit this documentation to the Regional Water Board on or before 30 **January** ~~**June**~~ each year and may propose a revised format after completion of the Water Quality Assessment.

    a. **Proper operation and regular maintenance programs**. The Discharger shall submit:

        i. A list identifying critical combined wastewater collection and treatment system components requiring routine maintenance and operation.

        ii. An evaluation of operation and maintenance procedures performed during the previous fiscal year.

        iii. Estimated resources (manpower, equipment, and training) required for maintenance of the CSS and CSO structures during the previous fiscal year.

        iv. An organizational chart or diagram detailing names and telephone numbers of key personnel, the chain of command, and the relationship among various program components.

        v. A record of overflows that occurred during the previous storm year, including the date, location, duration, and volume of each overflow.

        vi. A summary of completed inspections and maintenance performed.

        vii. A status report on implementation of a FOG control program.

    b. **Maximization of the sewer collection system storage**. The Discharger shall submit :

i. A description of the actions taken to maximize collection system storage during the previous year.

ii. Schedules for completing any construction necessary to implement projects the Discharger previously committed to implement, including the current status of projects underway, final completion dates, and dates by which interim steps will be completed.

c. **Review and modify the pretreatment program**. The Discharger shall submit:

i. Any Discharger-initiated changes to the Sacramento Regional County Sanitation District pretreatment program.

d. **Maximize flow to the POTW Treatment Plant**. The Discharger shall submit:

i. Rainfall and flow data associated with the discharge event resulting in any discharge from Discharge Point Nos. 002, through 007 during the previous storm year.

ii. Documentation that flows were maximized in accordance with the Combined Wastewater Control System Plan of Operations.

e. **Elimination of CSOs during dry weather**. The Discharger shall submit:

i. A summary of dry weather overflows that have occurred since its last report.

ii. The cause of, the estimated volume of, and the corrective actions taken to eliminate, each dry weather overflow that occurred since the last report.

iii. Description of the procedures used to detect dry weather overflows and notify the USEPA and the Board within 24 hours of detecting a dry weather overflow

f. **Control of solid and floatable materials in CSOs**. The Discharger shall submit:

i. A description of control measures currently in place for limiting the volume of solid and floatable materials in the CSOs.

ii. The status of any recommendations implemented as a result of the CSS Water Quality Assessment as required in Section VI.C.2 of this Order.

g. **Pollution prevention programs to reduce contaminants in CSOs.** The Discharger shall submit:

i. Documentation of pollution prevention program actions taken since its last report.

ii. The status of any recommendations implemented as a result of the CSS Water Quality Assessment as required in Section VI.C.2 of this Order.

h. **Public notification.** The Discharger shall submit:

i. Any updated procedures for notifying governmental entities of outflows and CSOs, including the names and titles of the specific officials to be notified, the names and titles of the persons responsible for making the notifications and the timeframes within which the notifications must be made.

ii. Documentation that CSO Discharge Point Nos. 002 through 007 are posted with signs informing the public of potential health risks and adverse environmental impacts. If these discharge points are already posted, the Discharger shall submit the language that is on each sign.

iii. Any updates to the public notification procedures in the "Standard Operating Procedures for Emergency Response" intended to provide the public with adequate notification of CSOs and CSS outflows, including appropriate warnings regarding potential exposure and public health hazards to be avoided.

i. **Monitoring to characterize CSO impacts and efficacy of CSO controls**. The Discharger shall submit:

i. A summary of CSO discharge occurrences during the previous storm year (total number of events and frequency, duration, volume and pollutant loadings of each event).

ii. Summary of water quality data collected during the previous storm year for impacted receiving water bodies.

iii. Summary of receiving water impacts during the previous storm year (e.g., beach closings, floatable material wash-ups, fish kills) as a result of any discharge from Discharge Point Nos. 002 through 007.

3. **Annual Long-Term Control Program Progress Reports. By 30 January ~~June~~ of each year**, the Discharger shall prepare and submit annual LTCP progress reports and may propose a revised format after completion of the Water Quality Assessment. The annual LTCP updates shall include, at a minimum, the following:

a. Description of overall progress and proposed schedule for achieving each of the LTCP interim and final goals as described in Section VI.C.4.c. of this Order.

b. Status of current on-going CSS improvement and rehabilitation projects initiated in the previous fiscal year or earlier. For each project provide:

   i. Type of Project

   ii. Date Approved

   iii. Date Budgeted

   iv. Date Started

   v. Current Status

   vi. Percentage Completed

   vii. Current Status of Operational Improvements (e.g., two of three new pumps operational)

   viii. Original Planned Completion Date

   ix. Expected Completion Date (if applicable, include explanation for any delays from the original planned completion date)

   x. Comments for Partially Completed Projects (e.g., trunk line can presently manage an additional 20 MGD rate during wet weather)

   xi. Comments for Completed Projects (e.g., plant bar screens need modification due to additional wet weather flows and debris)

c. Planned improvement and rehabilitation projects to be implemented in the upcoming fiscal year. For each project provide:

   i. Type of Project

   ii. Date Approved

   iii. Date Budgeted

   iv. Planned Start Date

   v. Planned Completion Date

   vi. Comments

4. **Annual Operations Report. By 30 January ~~June~~ of each year**, the Discharger shall submit a written report to the Executive Officer containing the

following and may propose a revised format after completion of the Water Quality Assessment:

Comment 17: Fact Sheet, Section II. Facility description, Page F-4:

Revise the introductory paragraph of the description as follows:

> The Discharger owns and operates a CSS that conveys domestic and commercial wastewater and storm water runoff from 7,510 acres (approximately 334 miles of sewer pipe) in downtown Sacramento, East Sacramento, and Land Park areas. The Discharger also owns and operates a separate sanitary sewer system that conveys domestic and commercial wastewater from 3,690 acres (approximately 566 miles of sewer pipe) from parts of the City surrounding the CSS to the north, east, and south, which is regulated under a separate Order. A portion of the flow from the separate sanitary sewer system flows into the CSS; the remainder flows by gravity or is pumped to the Regional Interceptors to the Sacramento Regional County Sanitation District's regional wastewater treatment plant (SRWTP). The entire collection system serves approximately 300,000 people.

Comment 18: Fact Sheet, State and Federal Regulations, Policies, and Plans, Page F-14:

Revise III.C.3 as follows:

> 3. State Implementation Policy (SIP). This ~~Order implements~~ discharge is not subject to regulation under the SIP as specified in the Finding contained at section II.J of this Order.

Comment 19: Fact Sheet, Table F-5 Number of CSO Discharges, Page F-26 through F-27:

The events listed in the following table need to be revised as shown. Of the eight events at Pioneer during 2005-2006, one multi-day event did not have discharges at CWTP; instead, one separate event occurred at CWTP on one of those days, leading to the corrected number. Also, an event overlapping one day of the Pioneer multi-day event was added for Sump 2. These corrections will match the events listed in Table F-6 and Table F-7. A note was also added to the first storm year listed, as the data on the following tables (F-6 and F-7) begin with events after 01/01/2002.

Table F-5. Number of CSO Discharges Reported

Storm Year	Number of Discharge Events from CSO Discharge Points						Total No. System Events[1]
	002	003	004	005	006	007	
10/01 - 9/02*	0	0	0	0	2	0	2
10/02 – 9/03	1	0	0	0	4	0	4
10/03 – 9/04	4	0	0	0	4	0	4
10/04 – 9/05	2	0	0	0	2	0	2
10/05 – 9/06	~~85~~	0	~~01~~	0	8	0	~~89~~
10/06 - 9/07	0	0	0	0	0	0	0
10/07 - 9/08	2	0	1[2]	0	3	0	3

[1] **The total number of system events represents the number of distinct storm events that resulted in a discharge from one or more of the authorized discharge points (Discharge Point Nos. 002, 003, 004, 005, 006, and 007).**

[2] **This discharge represents an untreated event that occurred on 4 January 2008; representing a total flow of 11.25 million gallons.**

* Data starting 01/01/2002

Comment 20: Attachment G, – Combined Sewer System Outflow Reporting Requirements, Pages G-1 through G-4:

The language for the reporting requirements should be revised for clarification as follows:

ATTACHMENT G – COMBINED SEWER SYSTEM OUTFLOW REPORTING REQUIREMENTS

Consistent with the intent of the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (Order No. 2006-003-DWQ) to notify the State and public of sanitary sewer overflows from collection systems that may potentially impact beneficial uses and public health, the following establishes the monitoring, record-keeping, reporting and notification requirements for combined sewer system (CSS) outflows.

For purposes of these requirements, a CSS outflow includes any ~~overflow,~~ spill, release, discharge or diversion of untreated or partially treated sewage or combined sewage and stormwater from the combined sewer collection system. CSS outflows include:

- Outflows or releases of untreated sewage or combined sewage and stormwater that reach waters of the United States;
- Overflows or releases of untreated or partially treated sewage or combined sewage and stormwater that do not reach waters of the United States; and
- Sewage or combined sewage and stormwater backups into buildings and on private property that are caused by blockages or flow conditions within the publicly owned portion of the combined sewer system.

CSS outflows do not include any combined sewer overflow (CSO) discharges from discharge points authorized under this Order (including Discharge Point Nos. 002 through 007).

Revisions to the CSS reporting requirements may be made at any time by the Executive Director, and may include a reduction or increase in the monitoring and reporting.

D. General Reporting Requirements

1. The Discharger must ~~complete~~ apply for a Notice of Intent (NOI) for the combined sewer system and request ~~obtain~~ a Sanitary Sewer System (SSO) Database account by registering through the California Integrated Water Quality System (CIWQS). This account will allow controlled and secure entry into the SSO Database. Additionally, within 30 days of receiving an account and prior to recording CSS outflows into the SSO Database, the Discharger must complete the "Collection System Questionnaire", which collects pertinent information regarding an Enrollee's collection system. The "Collection System Questionnaire" must be updated at least every 12 months.

2. Pursuant to Health and Safety Code section 5411.5, any person who, without regard to intent or negligence, causes or permits any untreated wastewater or other waste (e.g., combined wastewater and stormwater) to be discharged in or on any waters of the State, or discharged in or deposited where it is, or probably will be, discharged in or on any surface waters of the State, as soon as that person has knowledge of the discharge, shall immediately notify the local health officer of the discharge. Discharges of untreated or partially treated wastewater to separated storm drains and drainage channels, whether man-made or natural or concrete-lined, shall be reported as required above.

3. Any CSS outflow greater than 1,000 gallons discharged in or on any waters of the State, or discharged in or deposited where it is, or probably will be, discharged in or on any surface waters of the State shall also be reported to the California Emergency Management Agency (CALEMA) pursuant to California Water Code section 13271.

4. If the Discharger becomes aware that it failed to submit any relevant facts in any report required herein, the Discharger shall promptly submit such facts or information by formally amending the report in the Online SSO Database.

E. Notification Requirements

~~1.~~ For any CSS outflow that results in a discharge to a separated drainage channel or a surface water, the Discharger shall follow a notification process and schedule that is consistent with the notification requirements set forth in the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (Order No. 2006-003-DWQ and subsequent amendments.) ~~, as soon as possible, but not later than two (2) hours after becoming aware of the discharge, notify CALEMA, the local health officer or directors of environmental health with jurisdiction over affected water bodies, and the Regional Water Board.~~

~~2. As soon as possible, but no later than twenty-four (24) hours after becoming aware of a CSS outflow that results in a discharge to a drainage channel or a surface water, the Discharger shall submit to the appropriate Regional Water Quality Control Board a certification that CALEMA and the local health officer or directors of environmental health with jurisdiction over the affected water bodies have been notified of the discharge.~~

CSS Outflow Categories

1. Category 1 - All discharges of sewage or combined sewage and stormwater resulting from a failure in the Discharger's combined sewer system that:

   a. Equal or exceed 1,000 gallons, or

   b. Result in a discharge to a separated drainage channel and/or surface water; or

   c. Discharge to a separated storm drainpipe that was not fully captured and returned to the CSS.

2. Category 2 - All other discharges of sewage or combined sewage and stormwater resulting from a failure in the Discharger's CSS.

3. Private Lateral Sewage Discharges - Sewage or combined sewage and stormwater discharges that are caused by blockages or other problems within a privately owned lateral.

F. CSS Outflow Reporting Timeframes

1. Category 1 CSS Outflow - Except as provided in B. above, including any revisions to the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (Order No. 2006-003-DWQ) all CSS Outflows that

meet the above criteria for Category 1 CSS Outflows must be reported as soon as: (1) the Discharger has knowledge of the discharge, (2) reporting is possible, and (3) reporting can be provided without substantially impeding cleanup or other emergency measures. Unless superseded by revisions to the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, initial reporting of Category 1 CSS Outflows must be reported to the Online SSO System as soon as possible but no later than 3 business days after the Discharger is made aware of the CSS outflow. Minimum information that must be contained in the 3-day report must include all information identified in section E.1 below, except item E.1.k. A final certified report must be completed through the Online SSO System within 15 calendar days of the conclusion of CSS outflow response and remediation. Additional information may be added to the certified report, in the form of an attachment, at any time.

The above reporting requirements do not preclude other emergency notification requirements and timeframes mandated by other regulatory agencies (local County Health Officers, local Director of Environmental Health, Regional Water Boards, CALEMA or State law.

2. Category 2 CSS Outflows - All CSS Outflows that meet the above criteria for Category 2 CSS outflows must be reported to the Online SSO Database within 30 days after the end of the calendar month in which the CSS outflow occurs (e.g., all CSS outflows occurring in the month of January must be reported to the Regional Water Board by March 1st).

3. Private Lateral Sewage Discharges - All sewage discharges that meet the above criteria for Private Lateral sewage discharges may be reported to the Online SSO Database based upon the Discharger's discretion. If a Private Lateral sewage discharge is recorded in the Online SSO Database, the Discharger must identify the sewage or combined sewage and stormwater discharge as occurring and caused by a private lateral, and a responsible party (other than the Discharger) should be identified, if known.

4. If there are no CSS Outflows during the calendar month, the Discharger will provide, within 30 days after the end of each calendar month, a statement through the Online SSO Database certifying that there were no CSS Outflows for the designated month.

5. In the event that the Online SSO Database is not available, the Discharger must fax all required information to the Regional Water Board office (916-464-4600) in accordance with the time schedules identified above. In such event, the Discharger must also enter all required information into the Online SSO Database as soon as practical.

G. Mandatory Information to be included in CSS Outflow Reporting

The Discharger must report, at a minimum, the following mandatory information prior to finalizing and certifying a CSS outflow report for each category of CSS outflow:

1. Category 2 CSS Outflows:

    a. Location of the CSS outflow, including latitude and longitude coordinates, street address, city, state, zip code, cross street, and manhole number;

    b. Applicable Regional Water Board, i.e. identify the region in which the CSS outflow occurred;

    c. County where CSS outflow occurred;

    d. Whether or not the CSS outflow entered a separated drainage channel and/or surface water;

    e. Whether or not the CSS outflow was discharged to a separated storm drain pipe that was not fully captured and returned to the CSS;

    f. Estimated CSS outflow volume in gallons;

    g. CSS outflow source (manhole, cleanout, etc.) or affected area. For outflows resulting from wet weather, the CSS outflow report may address an affected area. A separate report will not be required for each location where the CSS has outflowed from the system;

    h. CSS outflow cause (mainline blockage, roots, surcharge, or flooding, etc.);

    i. Time of CSS outflow notification or discovery;

    j. Estimated operator arrival time;

    k. CSS outflow destination;

    l. Estimated CSS outflow end date/time; and

    m. Certification. Upon Certification, the SSO Database will issue a Final SSO Identification (ID) Number.

2. Private Lateral Sewage Discharges:

    a. All information listed above (if applicable and known), as well as;

    b. Identification of sewage or combined sewage and stormwater discharge as a private lateral sewage discharge; and

c. Responsible party contact information (if known).

3. Category 1 CSS Outflows:

   a. All information listed for Category 2 CSS outflows, as well as;

   b. Estimated CSS outflow volume that reached surface water, separated drainage channel, or not recovered from a separated storm drain;

   c. Estimated CSS outflow amount recovered;

   d. Response and corrective action taken;

   e. If samples were taken, identify which regulatory agencies received sample results (if applicable). If no samples were taken, NA must be selected.

   f. Parameters that samples were analyzed for (if applicable);

   g. Identification of whether or not health warnings were posted;

   h. Beaches impacted (if applicable). If no beach was impacted, NA must be selected;

   i. Whether or not there is an ongoing investigation;

   j. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the CSS outflow and a schedule of major milestones for those steps;

   k. OES control number (if applicable);

   l. Date OES was called (if applicable);

   m. Time OES was called (if applicable);

   n. Identification of whether or not County Health Officers were called;

   o. Date County Health Officer was called (if applicable); and

   p. Time County Health Officer was called (if applicable).